

NASA TECH BRIEF



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Mechanical Properties of Wire Insulation Automatically Determined

Three separate mechanisms have been developed to test the insulation on electrical wire specimens for mechanical resistance to flexure, abrasion or wear, and vibration. An electromechanical drive with a 6-digit cycle counter is connected to the selected test mechanism. An automatic cutoff circuit stops the drive and counter when a break occurs in the wire insulation during a particular test.

Notes:

1. The test mechanisms were specially designed for performing the evaluation tests on insulated wire specimens in a chamber which can be controlled to simulate space or spacecraft cabin environments.

2. Inquiries concerning this invention may be directed to:

Technology Utilization Officer
Manned Spacecraft Center
Houston, Texas 77058
Reference: B67-10370

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C. 20546.

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(MSC-10983)

Category 01